

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002931

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01S17/93 G01S13/93 G01S17/89 G01S13/86 G01S17/87

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/103385 A (IBE0 AUTOMOBILE SENSOR GMBH ; DIETMAYER KLAUS (DE); LAGES ULRICH (DE)) 27 December 2002 (2002-12-27) page 32, line 12 - page 34, line 15 page 37, line 1 - page 38, line 15 page 11, line 10 - line 14	1-12
A	US 2003/060956 A1 (EBENSTEIN SAMUEL EDWARD ET AL) 27 March 2003 (2003-03-27) abstract	
A	EP 1 338 477 A (TOYOTA MOTOR CO LTD) 27 August 2003 (2003-08-27) abstract	1-12
A	US 6 492 935 B1 (HIGUCHI TAKASHI) 10 December 2002 (2002-12-10) the whole document	1-12
-/-		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

* & * document member of the same patent family

Date of the actual completion of the international search

15 December 2004

Date of mailing of the international search report

28/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Johansson, R

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002931

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 633 705 A (ASAYAMA YOSHIKI) 27 May 1997 (1997-05-27) abstract	1-12
A	DE 101 33 945 A (BOSCH GMBH ROBERT) 6 February 2003 (2003-02-06) the whole document	1-12

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002931

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02103385	A	27-12-2002	DE 10128954 A1 DE 10132335 A1 DE 10148062 A1 DE 10154861 A1 WO 03001241 A1 WO 02103385 A1 EP 1267177 A1 EP 1267178 A1 EP 1395852 A1 EP 1405100 A1 JP 2004530144 T JP 2004530902 T US 2004247157 A1	19-12-2002 16-01-2003 10-04-2003 22-05-2003 03-01-2003 27-12-2002 18-12-2002 18-12-2002 10-03-2004 07-04-2004 30-09-2004 07-10-2004 09-12-2004
US 2003060956	A1	27-03-2003	NONE	
EP 1338477	A	27-08-2003	JP 2003252147 A EP 1338477 A2 US 2003160866 A1	10-09-2003 27-08-2003 28-08-2003
US 6492935	B1	10-12-2002	JP 2001099930 A	13-04-2001
US 5633705	A	27-05-1997	JP 3212218 B2 JP 7320199 A DE 19518978 A1 GB 2289816 A , B	25-09-2001 08-12-1995 30-11-1995 29-11-1995
DE 10133945	A	06-02-2003	DE 10133945 A1 WO 03008995 A1 EP 1412773 A1	06-02-2003 30-01-2003 28-04-2004